

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

U. S. Land Office

Serial Number

Lease or Permit

S. Z. C.
027944
Permit

SUNDRY NOTICES AND REPORTS ON WELLS

(INDICATE NATURE OF DATA BY CHECKING)

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

April 27, 1925, 192

Following is a {notice of intention to do work
report of work done} on land under {permit
lease} described as follows:

Utah San Juan Monumental District
(State or Territory) (County or Subdivision) (Field)

Well No. Canyon No. 1 Lot No. 1 SE $\frac{1}{4}$ Sec. 27, T. 41 S. R. 19 E. Salt Lake
($\frac{1}{4}$ Sec.) (Twp.) (Range) (Meridian)

The well is located 210 ft. $\left\{ \begin{smallmatrix} N \\ S \end{smallmatrix} \right\}$ of So. line and 206 ft. $\left\{ \begin{smallmatrix} E \\ W \end{smallmatrix} \right\}$ of W. line of Lot 1.

The elevation of the derrick floor above sea level is 4090 ft.

Details of Plan of Work:

STATE NAMES OF AND EXPECTED DEPTHS TO
OBJECTIVE SANDS.
SHOW SIZES, WEIGHTS AND LENGTHS OF
PROPOSED CASINGS.
INDICATE MUDDING JOBS, CEMENTING POINTS
AND ALL OTHER IMPORTANT PROPOSED WORK.

This location is in the San Juan River Canyon, 1285 feet below the top of the Goodridge formation, which forms the surface of this structure everywhere except in the Canyon. Six miles of road were built to the location, two miles of which was blasted from the almost vertical canyon walls. This work was expensive but it was equivalent to drilling nearly 1300 feet - it shortened fuel haulage nearly 20 miles and rendered water supply available from the River.

Quicksand and gravel were encountered making progress slow - 44 feet of 12 $\frac{1}{2}$ inch casing was set to avoid caving and 102 feet of 10 inch casing was set on bed rock. We are carrying 8 $\frac{1}{2}$ inch casing at 425 feet. Copy of log is attached with microscopic determinations of cuttings.

Our intention is to drill to 2000 feet or to production. Two thousand feet should penetrate through the Pennsylvanian or Lower Hermosa.

Approved May 1, 1925
(Date)

Company Utah Southern Oil Company

J. Chas. Miller

By G. H. Hansen

Title Associate Petroleum Engineer
BUREAU OF MINES

Title President

(OVER)

Plan of abandonment of above well approved with the following understanding:

1. Promptly notify L. C. New U.S. Geological Survey, stationed at
Bismarck, N.D., actual date of the commencement of plugging and
abandonment operations, that a representative of the Survey may be present.
2. All showings of oil and gas (as well as other mineral deposits such as
salt, coal, potash etc) to be fully protected against water by sealing
off productive formations with cement plugs, extending at least five
feet above and below the productive formations. Water wells are to be
plugged off in the same manner. Spaces between such plugs are to be
filled with heavy mud fluid and the hole is to be filled entirely from
bottom to surface with such cement plugs and mud fluid.
3. A permanent marker, consisting of not less than 10' of iron pipe, and
not less than 4" in diameter, and extending four feet above the surface to
be cemented in the ground at the location of this well.
4. A supplementary report of final abandonment (in triplicate on Form G-351)
to be submitted to this office when the work is finished. This report to
give a detailed account of the manner in which the work was actually
carried out, including the nature and quantities of materials used in
plugging and the location and extent (by depths) of the plugs of various
materials. Records of amounts, size and location (by depths) of all
casing left in well, and the names and positions of employees who carried
out the work should be included. THIS REPORT MUST BE SIGNED BY THE
EMPLOYEE ACTUALLY IN CHARGE OF THIS JOB.

Approved with the understanding that all oil or gas bearing strata will be protected from infiltration of water or dissipation to other formations, and that the $8\frac{1}{4}$ inch casing will be cemented by an approved method at a convenient point before drilling into any oil or gas bearing sand.

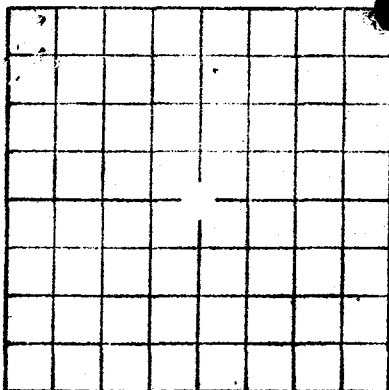
From	To	Formation
228	244	Blue shale, shading into pale lavender
244	257	Blue and lavender shale, getting harder
257	259	Blue shale, hard to get good samples because of caving. Underreaming and set casing to shut off caving.
259	260	Hard lime or flint.
260	267	Hard flint and lime
267	268	Blue shale
268	276	Hard gray lime
276	280	Gray lime, softer
280	287	Dark colored lime, odor of sulphur gas.
283	285	Dark lime, sulphur water and gas.
285	288	White lime, cuts fine, very hard
283	289	Very hard fine gray lime, hole caving.
289	290	Gray lime, hard
290	302	Hard gray lime
302	311	Hard fossil lime, very sharp
311	318	Hard gray lime
318	322	Blue shale
322	335	Blue shale and lime shells
335	348	Brown shale, hard.
348	350	Brown shale, sandy. Hit another small flow of sulphur water at 347'.
350	352	Brown shale, limey.
352	356	Very hard gray lime, cuts fine
356	362	Hard gray lime
362	379	Dark gray to black lime
379	384	Gray sandy lime, very sharp and hard.
384	387	Red sandy lime
387	391	Blue shale
391	394	Dark gray lime, red fossils.
394	402	Dark gray to black lime, some fossils
402	410	Hard black lime
410	413	Gray lime
413	416	Light colored shale
416	418	Shale, slightly yellow
418	436	Gray lime with seams of pink shale, some blue
436	462	Gray lime with streaks of red and blue shale
462	469	Blue shale
469	474	Gray lime and shale, reddish fossils
474	487	Gray fossil lime
487	497	Red and blue shale
497	505	Hard sharp pink flint
505	508	Dark shale and hard gray lime, sharp
508	519	Pink flint, hard lime, and very sharp
519	521	Drab colored shale
521	524	Dark blue shale.
524	532	Flint hard gray lime, very sharp
532	551	Shale, drab in color
551	557	Lime and red shale
557	560	Very hard gray lime.

From	To	Formation
560	563	Hard gray lime
563	584	Shale of reddish lavender color.
584	627	Red shale, very sharp quartz crystals.
627	624	Hard shaly gray lime
624	647	Fossil lime, drilling pretty good
647	658	Fossil lime
658	664	Hard gray lime
664	677	Gray lime, not so hard but looks the same.
677	692	Light gray lime, show of gas.
692	700	Light gray lime
700	703	Fossil lime, white
708	734	Fossil lime, light yellow
734	792	Fossil lime, <u>show of gas</u>
792	812	Light gray lime
812	830	Light gray lime. <u>Gas getting stronger.</u>
830	840	Light gray lime, harder
840	360	Gray lime. Casing set at 360'.
360	372	Line with dark specks
372	890	Porous lime + <u>big gas coming from line. Cuttings blown out of hole honey combed.</u>
890	895	Lime - more gas - non-inflammable CO ₂ gas.
895	904	Fine talc lime
904	910	Gray lime, probably contains more gas.
910	930	Gray to white lime, soft streaks. More gas.
930	939	Very hard fine white lime
939	947	Open hole or crevis about 70 mil. ft. more gas from this horizon.
947	951	Very hard fine white lime. Hit another open space with heavy gas flow.
951	954	White lime, hard.
954	957	Blue shale and hard gray lime
957	961	Hard bluish gray lime - drills very fine.
961	967	Hard dark gray lime
967	965	Some shale and dark gray lime
965	967	Hard gray lime
967	971	Light gray lime, hard. <u>More gas which cleaned the hole.</u>
971	975	Hard dark gray lime with soft thin seams.
975	978	Dark gray lime with red specks - differs from anything in zone.
978	981	Dark bluish gray lime, a little softer.
981	985	Softer, dark gray to nearly white - flakey.
985	998	Coarse cuttings- dark gray to nearly white, hard in places.
998	1001	Sandy lime and flakey shale
1001	1009	Some very hard gray lime with streaks of shale
1009	1027	Light gray lime
1027	1026	Layers of shale
1026	1027	Shale - green and cream colored
1027	1070	Hard white gypsum
1070	1071	Dark gray lime, very hard
1071	1075	Light gray lime, hard
1075	1043	Dark gray lime, flinty.
1043	1043	Dark gray lime, softer.
1043	1058	Dark Gray shale
1058	1075	Gray lime, drilled very fine.

From	To	Formation
1075	1121	Dark gray lime, hard
1121	1133	Very hard dark gray lime.
1133	1145	Dark gray lime, cutting coarse.
1145	1174	Dark gray lime, very hard and cuts fine.
1174	1177	Very hard light gray lime
1177	1193	Gray to bluish lime, medium hard
1193	1203	Light gray lime, hard
1203	1205	Brown lime, hard
1205	1211	Hard shelly lime
1211	1215	Light colored sand
1215	1226	Sand, dry and light
1226	1237	Gray lime
1237	1243	Dark gray lime
1243	1247	Sand, hard and tight
1247	1262	Dark gray lime, very hard, shells.
1262	1285	Dark gray lime, cuts very fine
1285	1296	Hard gray lime, showing of oil
1296	1304	Gray limestone showing fractures
1304	1317	Dark gray limestone, badly fractured
1317	1330	Dark to light gray lime, shattered
1330	1340	Dark gray limestone, badly fractured
1340	1347	Light gray to dark gray limestone, fractured.
1347	1350	Dark gray limestone, badly fractured
1350	1356	Greenish gray sandy limestone
1356	1389	Dark gray lime showing fractures and a few small mineralized "vugs". Galenite and Spalcoite.
1389	1398	Gray lime and quartzite(?).
1398	1407	Quartzite (?).
1407	1412	Quartzite
1412	1447	Gray lime - porous in places.
1447	1451	Gray lime, broken
1451	1461	Gray lime
1461	1464	Quartzite
1464	1478	Gray lime
1478	1481	Dark coarse gray sand, with petroleum odor
1481	1487	Dark gray sand - petroleum odor
1487	1503	Gray porous lime, carrying quartz crystals and "vugs" with petroleum residue.
1503	1543	Dark gray lime
1543	1555	Very dark lime, badly broken.
1555	1557	Gray lime containing mineral
1557	1561	Black lime, badly broken, petroleum odor.
1561	1572	Black lime, very broken. Core barrel blocks after two runs.
1572	1575	Black lime, very broken
1575	1580	Gray lime, slight showing of oil at 1580'.
1580	1583	Gray lime, very broken.
1583	1586	Dark gray lime
1586	1603	Gray lime. Slight showing of oil at 1603'
1603	1607	Quartzite
1607	1616	Sky blue lime
1616	1624	Hard gray lime

From	To	Formation
1624	1629	Gray lime
1629	1658	Blue lime
1658	1663	Red lime
1663	1668	Blue gray lime
1668	1703	Gray lime
1703	1705	Red lime
1705	1715	Gray lime
1715	1723	Streaked with red lime
1723	1735	Alternately, gray, red, and green lime
1735	1736	Red lime
1736	1742	Blue shale
1742	1745	Mica Schist
1745	1760	Blue shale with streaks of mica schist
1760	1768	Blue shale
1768	1769	Granite wash
1769	1787	Blue shale with granite wash streaked through it
1787	1791	Granite wash
1791	1792	Mica Schist
1792	1797	Granite wash
1797	1798	Mica schist
1798	1850	Granite wash

PERMANAL



LOCATE WELL CORRECTLY

Company Utah Southern Oil Company Address 533 Clift Bldg., Salt Lake City, Utah
 Lessor or Tract _____ Field Monumental State Utah
 Well No. Canyon #1 Sec. 27 T. 41S R. 19E Meridian Salt Lake County San Juan
 Location 210 ft. N. of S. Line and 206 ft. E. of W. Line of Lot 1 Elevation 4090 feet
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed G. T. HANSEN

Date March 20, 1928.

Title President

The summary on this page is for the condition of the well at above date.

Commenced drilling October 2, 19 24 Finished drilling March 19, 19 26

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 350 to 975 Non-Inflammable gas.
 No. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____
 No. 5, from _____ to _____
 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 347 to 350
 No. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
12 1/4"	50 1/2								
10 1/2"	44								
8 1/2"	36								
6 5/8"	28								
5 3/8"	22								

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 1/2"	35'		Mudded		
6-5/8"	350'	Mudded to surface.			

PLUGS AND ADAPTERS

Heaving plug - Material _____

Length _____

Depth set _____

Adapters - Material _____

Size _____

LAND OFFICE Salt Lake City

SERIAL NUMBER 027944

LEASE OR PERMIT TO PROSPECT Permit

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY

MAR 2 1933

LOG OF OIL OR GAS WELL

WILMINGTON, N. MEX.

PLUGS AND ADAPTERS

Heaving plug - Material

Length

Depth set

Adapters - Material

Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from Surface _____ feet to 1290 _____ feet, and from _____ feet to _____ feet

Diamond Drill was used from

1290 feet to 1850 feet.

DATES

_____, 19. _____ Put to producing _____ 10

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %

emulsion; _____ % water; and _____ % sediment.

Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 50,000,000 ¹/₂

Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 250 ¹/₂

EMPLOYEES

A. B. Lauck

Driller

Driller

C. Lafon

Driller

Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	87		Boulders and wash gravel
37	97		Blue lime
97	100		Cave
100	102		Blue lime
102	110		Blue gray lime with red spots here and there
110	120		caving from above, making progress slow.
120	122		Blue lime - very hard, drills up fine.
122	125		Blue lime
125	129		Cave
129	138		Blue - formation very hard, tools run poor,
138	148		after going through cave.
148	150		Blue to gray lime - drills up fine.
150	155		Blue gray lime
155	158		Hard gray lime
158	167		Black sandy lime, very hard, odor of sulphur.
167	180		Hard black lime.
180	187		Dark gray lime, better drilling.
187	185		Gray lime, very hard with softer streaks
185	202		Hard gray lime - exceptionally hard.
202	207		Black lime
207	213		Dark gray lime
213	225		Dark gray lime, cut coarse, better drilling
225	228		Dark gray lime - hard and cuts fine.
228			Gray lime
228			Gray lime

FORMATION RECORD - CONTINUED

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Serial Number 027944

Lease or Permit Permit.

APR - 6 1928

SUNDRY NOTICES AND REPORTS ON WELLS

SHIPROCK, NEW MEX.

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 20, 1928, 192

Following is a {notice of intention to do work} on land under {permit} described as follows:
~~report of work done~~ ~~lease~~

Utah.

(State or Territory)

San Juan County.

(County or Subdivision)

Monumental.

(Field)

Well No. Canyon No. 1. Section 27. T. 41 South. R. 19 E. S. 1. M.
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 210 ft. [N] of S. line and 208 ft. [E] of W. line of sec Lot 1.
~~SW~~ ~~SE~~

The elevation of the derrick floor above sea level is 4020 ft.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

We propose to leave all casing in hole except flush joint diamond drill pipe now set at 1290 feet. Will pull this and fill hole with mud fluid to near the surface and place cement plug on top of mud inside 5 3/16" casing. 5 3/16 inch casing set at 1010 feet shutting off gas horizon from 850 feet to that depth. Will pump mud in between 5 3/16 inch and 6 5/8 inch, killing gas, then pump in cement on top of mud between strings. 6 5/8 inch set at 850 feet and completely mudded from that depth to surface when set, in order to prevent gas from flowing out from behind same. 8 1/4 inch casing set at 385 feet, formation shut off. No water was encountered in hole after setting 8 1/4 inch at 385 feet to present depth at 1850 feet. 10 inch set at 252 feet, not cemented. 44 feet of 12 1/2 inch drive pipe driven in surface gravel. All strings of pipe are frozen at present and for the amount involved would be a useless waste of time and money to try and salvage same considering remote location. The above procedure will effectively seal off all horizons and protect gas horizon from any leakage or encroachment of water. Will also cement top of hole and insert iron marker as the U.S.G.S. requires on abandoned wells.

APPROVED: (SEE ATTACHED) MAR 20, 1928

D. P. WARDWELL

D. P. WARDWELL
DEPUTY SUPERVISOR
GEOLOGICAL SURVEY

By UTAH SOUTHERN OIL COMPANY

Title

Title

President

Address

Address

533 Clift Building,
Salt Lake City, Utah.

NOTE: Reports on this form to be submitted in triplicate to the Supervisor for approval.

U.S. GEOLOGICAL SURVEY 6-7053

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSerial Number 027944
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
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NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

192

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{report of work done} {lease}

UTAH

San Juan County,

Monumental

(State or Territory)

(County or Subdivision)

(Field)

Well No. Canyon No. 1 SE $\frac{1}{4}$ Section 27, T. 41 S. R. 19 E. S.L.M.

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

The well is located 210 ft. $\begin{matrix} N \\ S \end{matrix}$ of S. line and 206 ft. $\begin{matrix} E \\ W \end{matrix}$ of W. line of ~~at~~ Lot 1.

The elevation of the derrick floor above sea level is 4090 ft.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Work of plugging well was carried out as follows:-

No pipe was pulled except all 3" flush joint diamond drill pipe which was set at 1290'. Hole was then filled with mud fluid to 1490' and then filled with cement from 1490 to 1470 to protect sand from 1473 to 1487. Mud fluid was then run in from 1470 to within 10' of top inside the 3-3/16" pipe and then filled with cement to top. A piece of pipe 4" in diameter was imbedded in cement plug and left extending 4' above collar of well for a permanent marker. A mud fluid was then pumped in between the 3-3/16" string, set at 1010' and 6-5/8" set at 850' to within 20' of top, killing gas and then filled to top with cement. The 6-5/8" casing set at 850' was completely mudded from that depth to surface when set in order to prevent gas from blowing out from behind same. A mud fluid was run in between the 6-5/8" and 8" set at 385' to within 10' of top and then filled with cement to top. The same procedure was followed in mudding and cementing between the 8" and 10" set at 252' and between the 10" and 12" set at 44'.

Approved January 5, 1923

Company

By

W. H. STRANG

Title DEPUTY SUPERVISOR

GEOLOGICAL SURVEY

Title

Lease Foreman.

Address CASPER, WYOMING

Address

Moab, Utah.

NOTE. Reports on this form to be submitted in triplicate to the Supervisor for approval.

GOVERNMENT PRINTING OFFICE 8-7063

CLASSIFICATION — Initial

Final

State UTAH
County SAN JUAN
Division
District
Basin
Area
Field SAN JUAN
Pool Name

Company U. S. O. CO.

Lease GLOCKNER CANYON

Well No. L

Grid

Location Ls SW SW SE 1000 FSL 2300 FEL

Sec. 27 & Twp. 41S Rge. 19

Spud 4-7-24 Compl. 3-15-28 Recompl. Abd. T.D. 1850 Elev. Ls 41

Plug Redrld. Depths Total Exploratory Footage

COMPLETION RECORD

WELL DATA

Casing

Reported made 30" M M C F 6/D w/ SIP 250#
from Penn. from intervals 812/830,
872/895, 939/951, 967/971

Elect. Log
Dip Meter
History
Core Record
Misc. Logs.
Survey

Prod. Interval
Prod. Formation
Initial Production
Remarks

Probably in Mississippi

HORIZONS — FORMATIONS

Surface Formation			Bottom Hole Formation		
Formation	Cores and Samples	Elec. Log	Formation	Cores and Samples	Elec. Log
Hermosa Granite Wash	surface T. D.				

DRILLING PROGRESS

Date	Depth	Remarks and History
		<i>Could not find</i> <i>Back!</i>